the gill-filaments while lere they cruss them obliquely. Moreover, the septa of the Unionida are much more closely set (chiefly in the females), and much more regular.

Margaritana monodonta differs by this structure markedly from all species of Margaritant I know. I have seen the typical Mar-garitana-structure not only in Margaritenu margaritifera (L.) (both from Europe and northeastern America), hut also in two specimens of Margaritana sinuata (Lam.) (= crussa Simpson, 1, c. 1. 678) from near Perpignan, France (sent to me by Mr. W. Israël), and in a number of specimens of Margaritana hembeli (Conr.) from southern Alabama (I am obliged to Mr. H. H. Sinith for these). While I thus consider these three species as congeneric (the creation of Pseudumio for sinuata by Haas notwithstanding , M. monodontor differs trom them in an important structure, which undoubtedly represents a higher specialization, a forward step in evolution, and it is, as I believe, entitled on this account to the rank of a separate genns, which I propose to call Cumberlandia ('Type: monodonta Say).

As to the distribution of Cumberlandia monodontu, Walker's papers should be consulted (Pr. Mal. Soc. 9. 1910 1p. 137-139, and Nautilus, 25. 1911 p. 57-58). According to this, the metropolis of it seems to be in the Cumberland and Tennessee Rivers, but it has spreal into the lower Ohin drainage, and into Indiana and Illinois. In the Ohio, it was not known, up to the present, above Cincinnati: but I may mention here, that I found last summer (July 13, 1911) a dead sperimen of Cumberlandia monodonta in the Ohio River at Buffington Island, near Portland, Meigs Co., Ohio. I also may add, that according to the experience gained by my last year's collecting, it is eutirely excluded that this species occurs anywhere in the Big Sandy or Great Kanawha Rirers, and that I do not think that it reached its present range by comings "down" the Ohin. But this will be discussed elsewhere.

ADDITION TO THE LIST OF MOLLUSCA FROM MONTE EANO, ALABAMA. BY. H. E. WHEELER。
'Through the kindness of Prof. Herbert H. Smith, conchologically the "discoverer" of Monte Sano, and Mr. George H. Clapp, who
determined the collections from this region, I am able to make the following arlditions to the list published in the March number of the Nautilus for the current year. It should be noted that some of the species listed then and now were not found on the monntain proper, but, living on the foothills or in the adjacent valleys, are futitled to enumeration in the fauna of the region.

Polygyra auriformis, Bld. This and the species cleusca are low land shells, collected near the base of the mountain.

Polygyra pustuloides, Bld. Near Huntsville, and also on the mountain.

Polygyra tridentatu Say. "Common in the whole region, and prolably on the table land of the Mountain." Smith.

Polygyra clausu Saj.
Polygyra hirsuta Say. Typical hirsuta is found on Monte Sano aveording to Clapp.

Strobilops virgo Pils.
Bifidaria contracta Say.
Bifidaria corticaria Say.
Bifilaria pentodon Say.
Bifidaria pentodon gracilis Sterki.
Bifidaria clappi Sterki. See Nautilus, Vol, XXII, pp. 108, 10』. Sterki gives Huntsville, Alabama as one of the type localities. Clapp has it also from Monte Sano.

Vertigo milium Gld.
Vertigo rugosula oralis Sterki. "In the Huntsville region, and almost surely from the mountain." (Smith).

Vertigo gouldii Binn.
('ochlicopa lubrica morserna P. From the western part of Viscont Mountain. This is one of the numerous connected spurs of the same mountainous chain, and the species is likely to be fomed on Monte Sano in suitable situations.

Omphalina pilsuryi Clapp. Ste Nautinus, Vol. XVIII, p. 80. Collected by the writer at Normal, several miles north of Huntsville, Alabama, and by Smith on Monte Sano.

Eucomulus chersimus dentatus, Sterki. "More correctly и•form '; errtainly not a variety." (Smith).

Gustrodonta intertexta Binn. Collected by the writer at Huntsville, and by Prof. Smith on the mountain.

Gastrodonta acerra Binn. IIuntsville region. Should be found on the molntain.

## Punetum blandianum Pils.

Pyramidula cumberlondiana, Lea. Rarely at the southern end of Monte Sano. This record, furnished by Smith, cancels the negative note in previous article.

There is a variety of Pyramidula alternata, Say, which is quite constant, distinguished principally by its sub-carinate contour, which was collected on an isolated peak (Ward's Mountain?) three miles south west of Huntsville.

Pyramidula sub-sp. nov. (Pilsbry). A splendid sub-species of bryanti which has heen described by Dr. Pilsbry, but not yet published. Locality a dry ridge about 6 miles north of Monte Sano.

Succinea avara Say. Reported by Clapp.
Carychium exigum Say. "Associated with exile, H. C. Lea, but rare and local." (Smith).

## LAND SHELLS OF SOUTHERN FLORIDA.

## BY E. G. VANATTA.

This list is based upon shells picked from leaf-mould collected in Florida by Messrs. Clarence B. Moore, H. A. Pilsbry, C. T. Simpson, Stewardson Brown, H. W. Fowler, and J. S. Raybon.

All are in the collection of the Academy of Natural Sciences.
Many of the specimens of Truncatella bilabiata are a rather smooth form parallel to T. c. succinea Ad.

The typical Polygyra cereolus Mühl. were at first divided by size from the var. carpenteriana Bld., but these two forms intergrade as shown by the following count of specimens in a large series from two localities. In a lot from Little Pine Key there are 46 Polygyra cereolus measuring from 14.5 to 10.5 mm ; 700 Polygyra c. carpenteriana measuring 10.3 to 7.5 mm ., and 40 measuring 8.3 to 7 mm . in diameter.

From Big Pine Key at Robert Watson's place there are $12 P$. cereolus measuring 14.5 to 11 mm . in diameter; 1009 var. carpenteriana measuring 11.3 to 9 mm ., and 16 from 9 to 7 mm . It will be seen that no definite division can be made. Each of these lots represents a single colony, the snails being scraped up with the dirt, without selection, from under stones in an area of a square rod or two.

